

## AMENDMENTS

### In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) ~~[[An]]~~ A cleaning head comprising a housing having a sole plate configured for traveling across a surface and an agitation apparatus ~~for a cleaning appliance~~ comprising a wave generator configured for generating alternating pressure waves, a first fluid flow path with a first inlet/outlet port and a second fluid flow path with a second inlet/outlet port, the area adjacent first and second the inlet/outlet ports forming an agitation region, wherein the wave generator is arranged to generate a first alternating pressure wave along the first fluid flow path and a second alternating pressure wave along the second fluid flow path, the first and second pressure waves being substantially in an anti-phase relationship with one another.

2. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 1 wherein each flow path comprises a cavity.

3. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 2 wherein the cavity is a resonating cavity.

4. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 2 wherein the cavity in each flow path is of the same volume.

5. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim ~~[[1,]]~~ 2, 3 or 4 wherein the cavity is directly adjacent to the wave generator.

6. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to any one of claims 2 to 4 wherein each of the flow paths includes a cavity with a port extending directly from it.

7. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim ~~[[1,]]~~ 2, 3 or 4 wherein the cavity is located away from the wave generator and is joined to the wave generator by a duct.

8. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 1, 2, 3 or 4 wherein the wave generator comprises a diaphragm, a first side of the diaphragm communicating with the first flow path and a second side of the diaphragm communicating with the second flow path whereby to generate the first and second alternating pressure waves.

9. (Currently Amended) ~~An agitation apparatus~~ ~~An agitation apparatus~~ A cleaning head according to claim 8 wherein the wave generator further comprises a driver for driving the diaphragm and wherein the driver is housed within one of the flow paths.

10. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 8 wherein the wave generator further comprises two drivers for driving the diaphragm, and wherein the drivers are mounted on each side of the diaphragm, a first of the drivers being housed in the first flow path and a second of the drivers being housed within the second flow path.

11. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 1, 2, 3 or 4 wherein the wave generator comprises two diaphragms, a first of the diaphragms communicating with the first flow path and the second of the diaphragms communicating with the second flow path, and a driver for driving the diaphragms which is positioned between the diaphragms.

12. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 1, 2, 3 or 4 wherein the wave generator comprise a coil and a magnet, one of the coil or magnet being movable with respect to the other, the coil receiving an alternating signal for energizing the coil.

13. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 12 wherein the coil receives a signal at the frequency of the mains supply.

14. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 12 further comprising a signal source for generating an alternating signal for supplying to the coil.

15. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 12 wherein the wave generator comprises a loudspeaker.

16. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 1, 2, 3 or 4 wherein the wave generator is driven by airflow.

17. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 16 further comprising a turbine for positioning in an airflow path to ~~[[the]]~~ a vacuum cleaner and a coupling for coupling the output of the turbine to the wave generator.

18. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 1, 2, 3 or 4 wherein the wave generator generates a pressure wave with a frequency in the range 0-200Hz.

19. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 18 wherein the frequency of operation of the wave generator is variable.

20. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 19 wherein the frequency of the wave generator is manually adjustable by a user of the apparatus.

21. (Currently Amended) ~~An agitation apparatus~~ A cleaning head according to claim 19 further comprising a detector for detecting ~~[[the]]~~ type of floor surface to be cleaned by the cleaning head and wherein the frequency of operation of the wave generator is variable according to the detected type of floor surface.

22. (Canceled)

23. (Currently Amended) A cleaning head according to claim ~~[[22]]~~ 1 in the form of a cleaning head for a vacuum cleaner, wherein the housing is a suction housing having a suction outlet for connecting to a source of suction and the ports of the agitation apparatus are spaced apart along the housing.

24. (Currently Amended) A cleaning head according to claim ~~[[22]]~~ 23 wherein the ports are directed downwardly towards the sole plate.

25. (Currently Amended) A cleaning head according to claim [[22]] 1 wherein the ports are inclined with respect to the sole plate of the cleaning head.

26. (Currently Amended) A cleaning head according to claim [[22]] 1, comprising a plurality of the agitation apparatus.

27. (Previously Presented) A cleaning head according to claim 26 wherein the agitation apparatus are spaced along the longitudinal axis of the cleaning head.

28. (Currently Amended) A cleaning head according to claim [[22]] 1 in the form of a tool for fitting to a wand.

29-32. (Canceled)